

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) An Internet protocol (IP) networking architecture for ~~an aircraft~~ a mobile platform, the architecture comprising:

a command and control sub-network (CCN) interconnecting a plurality of control interfaces wherein each control interface has a corresponding logical CCN address;

a passenger services sub-network (PSN) interconnecting a plurality of passenger interfaces wherein each said passenger interface has a corresponding logical PSN address; and

an air-to-ground sub-network (AGN) providing Internet access to the passenger interfaces via at least one ~~or more~~ isolation ~~systems~~ system having corresponding logical CCN addresses and corresponding logical PSN addresses such that devices communicating on the AGN and the PSN are blocked from accessing the CCN addresses by the one isolation system;

wherein a seat electronics box is defined as one of the passenger interfaces, the logical PSN address of the seat electronics box acting as a proxy address for devices coupled to the seat electronics box, the seat electronics box having a seat processor for translating PSN addresses into AGN addresses.

2. (currently amended) The architecture of claim 1, wherein the at least one isolation ~~systems have~~ system has a logical AGN addressees corresponding to an aircraft a mobile platform identifier such that the aircraft mobile platform has a unique subnet address.

3. (currently amended) The architecture of claim 2, wherein ~~an airborne a~~ router ~~is defined as one of~~ comprises the at least one isolation ~~systems~~ system, the ~~airborne~~ router having a device identifier such that the aircraft mobile platform identifier and the device identifier define the logical AGN address for the ~~airborne~~ router.

4. (currently amended) The architecture of claim 2, wherein a web server is ~~defined as one of~~ comprises the at least one isolation ~~systems~~ system, the web server having a device identifier such that the aircraft mobile platform identifier and the device identifier define the logical AGN address for the web server.

5. (cancelled)

6. (cancelled)

7. (currently amended) The architecture of claim ~~5~~ 1 wherein a port is defined as one of the passenger interfaces, the port having a logical PSN address for which the logical PSN address of the seat electronics box serves as a proxy address.

8. (currently amended) The architecture of claim 5 ~~1~~, wherein a passenger-supplied computing device ~~is defined as~~ comprises one of the passenger interfaces, the passenger-supplied computing device having a logical PSN address for which the logical PSN address of the seat electronics box serves as a proxy address.

9. (original) The architecture of claim 1 wherein one or more seat electronics boxes are defined as being control interfaces such that the seat electronics boxes have corresponding logical CCN addresses.

10. (original) The architecture of claim 9 wherein one or more area distribution boxes are defined as being control interfaces such that the area distribution boxes have corresponding logical CCN addresses, the area distribution boxes serving as hubs for the seat electronics boxes.

11. (currently amended) The architecture of claim 1 wherein the AGN further provides ~~Internet~~ access via a wide area network to a plurality of crew interfaces, wherein each said crew interface has a corresponding logical AGN address.

12. (currently amended) The architecture of claim 11 wherein ~~an aircraft a~~ mobile platform interface unit ~~is defined as~~ comprises one of the crew interfaces such that the ~~aircraft~~ mobile platform interface unit has a corresponding logical AGN address.

13. (original) The architecture of claim 11 wherein a control panel is defined as one of the crew interfaces such that the control panel has a corresponding logical AGN address.

14. (original) The architecture of claim 11 wherein a media server is defined as one of the crew interfaces such that the media server has a corresponding logical AGN address.

15. (currently amended) An IP networking architecture for ~~an aircraft~~ a mobile platform, the architecture comprising:

a command and control sub-network (CCN) interconnecting a plurality of seat electronics boxes and area distribution boxes, the seat electronics boxes and area distribution boxes being defined as control interfaces such that each control interface has a corresponding logical CCN address;

said area distribution boxes serving as hubs for the seat electronics boxes;

a passenger services sub-network (PSN) interconnecting a plurality of passenger interfaces wherein each said passenger interface has a corresponding logical PSN address;

said seat electronics boxes being further defined as passenger interfaces such that the seat electronics boxes have corresponding logical PSN addresses acting as a proxy address for devices coupled to the seat electronics box; and

an air-to-ground sub-network (AGN) providing Internet access to the passenger interfaces via at least one ~~or more~~ isolation ~~systems~~ system having corresponding logical CCN addresses and corresponding logical PSN addresses such that devices communicating on the AGN and the PSN are blocked from accessing the CCN addresses by the one isolation system;

the seat electronics box having a seat processor for translating PSN addresses into AGN addresses;

said AGN further providing Internet access to a plurality of crew interfaces wherein each crew interface has a corresponding logical AGN address.

16. (currently amended) The architecture of claim 15 wherein the at least one isolation ~~systems have~~ system has a logical AGN ~~addresses~~ address corresponding to ~~an aircraft~~ a mobile platform identifier such that the ~~aircraft~~ mobile platform has a unique subnet address.

17. (currently amended) A method for structuring Internet protocol (IP) addresses within ~~an aircraft~~ a mobile platform, the method comprising the steps of:

assigning logical command and control sub-network (CCN) addresses to a plurality of control interfaces;

assigning logical passenger services sub-network (PSN) addresses to a plurality of passenger interfaces; and

assigning a logical CCN address, a logical PSN address and a logical air-to-ground sub-network (AGN) address to ~~an~~ at least one isolation system such that devices communicating on the AGN and the PSN are blocked from accessing the CCN addresses by the one isolation system;

using a seat electronics box as one of the passenger interfaces;

using the logical PSN address of the seat electronics box to act as a proxy address for devices coupled to the seat electronics box; and

using the seat electronics box to translate PSN addresses into AGN addresses.

18. (currently amended) The method of claim 17 further including ~~the step of~~ assigning ~~an aircraft~~ a mobile platform identifier to the logical AGN address of the one isolation system such that the ~~aircraft~~ mobile platform has a unique subnet address.

19. (currently amended) The method of claim 18 further including ~~the step of~~ ~~defining an airborne~~ using a router as the one isolation system, the ~~airborne~~ router having a device identifier such that the ~~aircraft~~ mobile platform identifier and the device identifier define the logical AGN address for the ~~airborne~~ router.

20. (currently amended) The method of claim 18 further including ~~the step of~~ ~~defining~~ using a web server as the one isolation system, the web server having a device identifier such that the ~~aircraft~~ mobile platform identifier and the device identifier define the logical AGN address for the web server.